

SPECIFICATION

for

0dBi glue stick 2.4/5.8G WIFI antenna

Customer No.

Product No.

TX-2.4~5.8G rubber stick antenna

Author: XiaofengZeng Review: Liming

Release Date: 2024.10.08

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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of Tianxing Communications

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		

2. General

2.1 Scope of application

2.4G/5.8G WIFI Antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	2.4G/5.8G WIFI Antenna
2	Operating Frequency Band	2400-2500MHz & 5100-5900MHz
3	VSWR	≤2.5
4	Gain	0dBi
5	Impedance	50 Ω
6	Antenna Type	Glue stick antenna
7	Antenna composition	Glue stick
8	Entity Picture	

4. Specification Details

4.1 Mechanical Properties

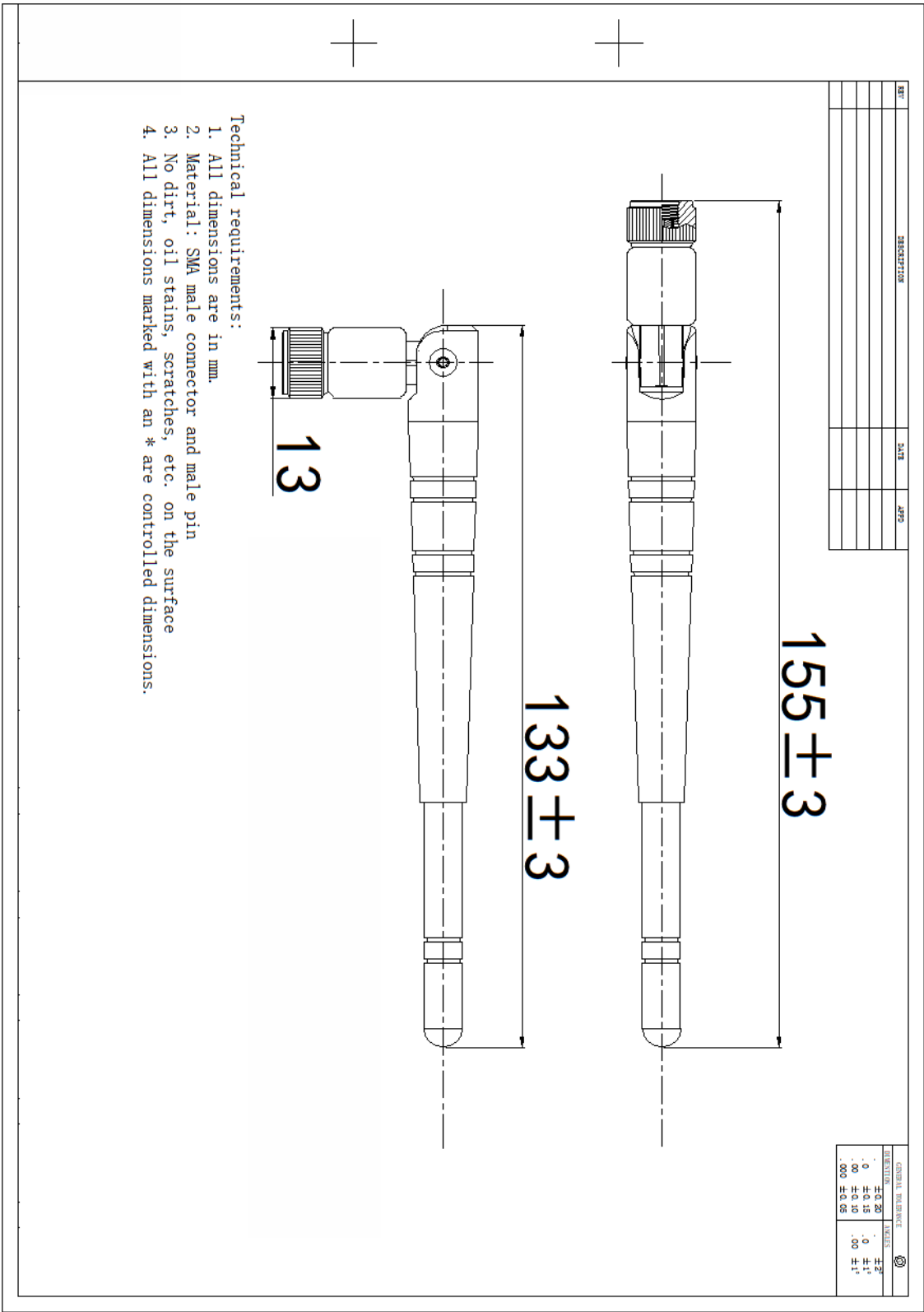
4.11 Product Composition:

4.12 Apperance

Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:



4.2 Electric Performance

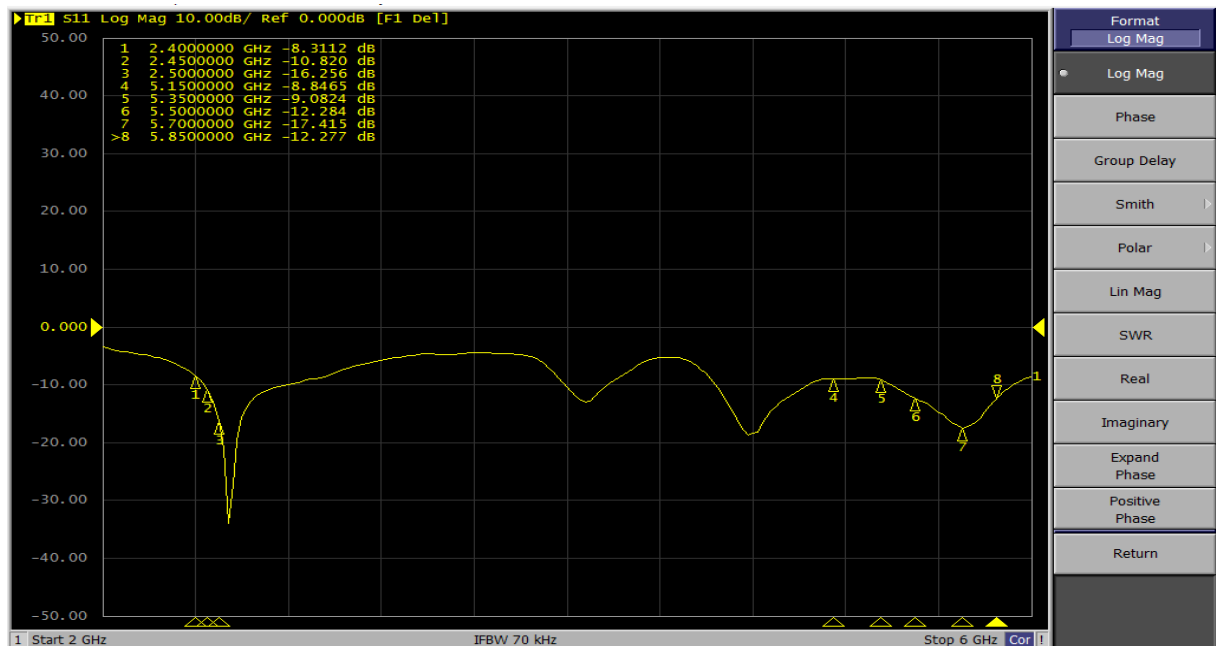
4.21 Test condition

Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	AnechiorChamber:Multi-probe
Atmospher: 750mmkg±30mmkg	Microwave

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

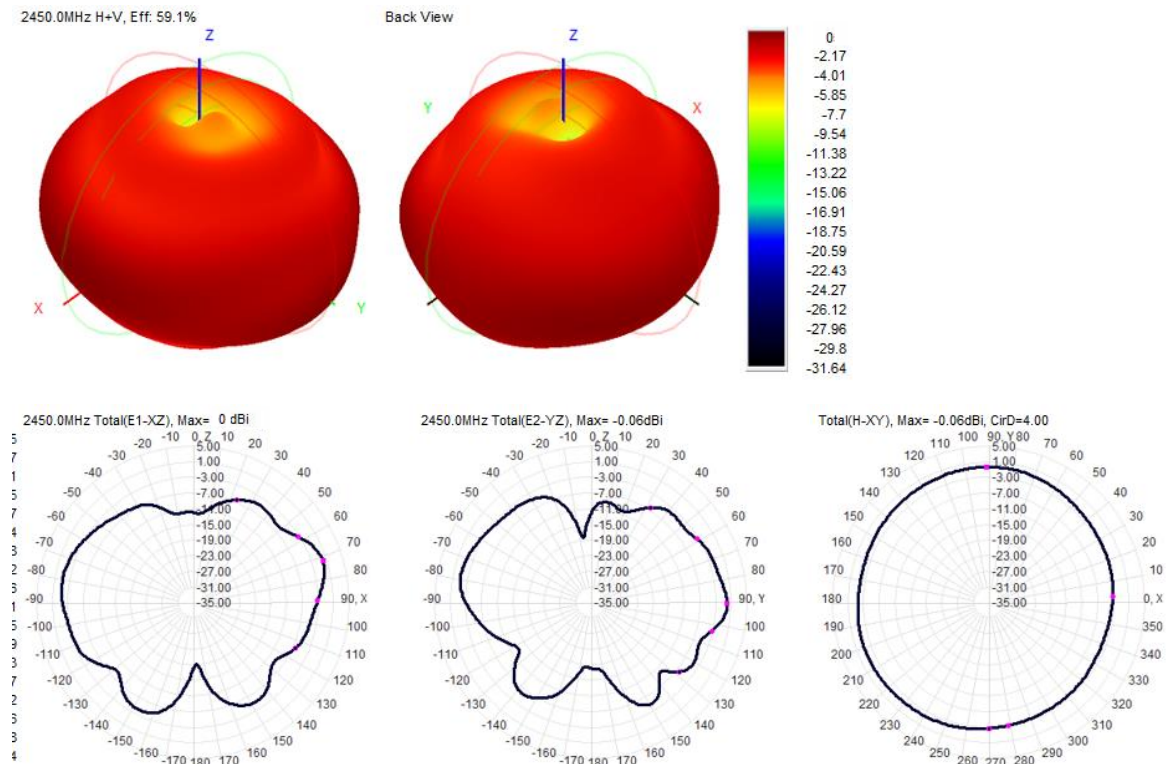
Marker (MHZ)	2400	2450	2500	5150	5350	5500	5700	5850
Return loss	-8.31	-10.82	-16.25	-8.81	-9.08	-12.28	-17.41	-12.27
VSWR	2.21	1.75	1.30	2.19	1.96	1.71	1.29	1.70



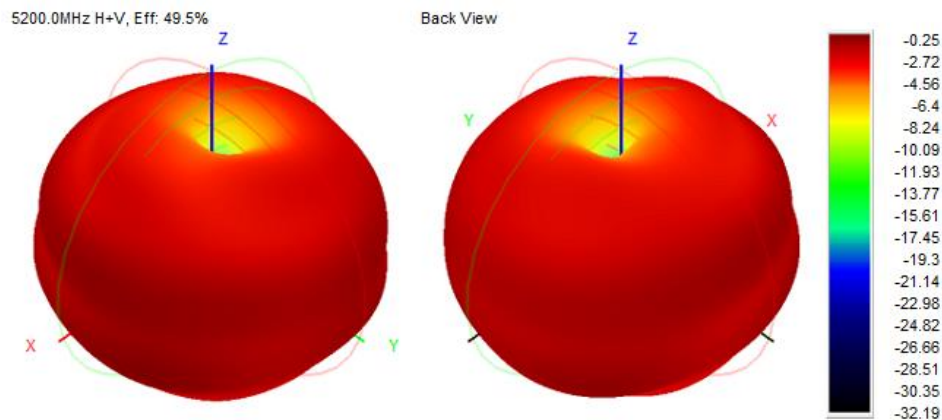
4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

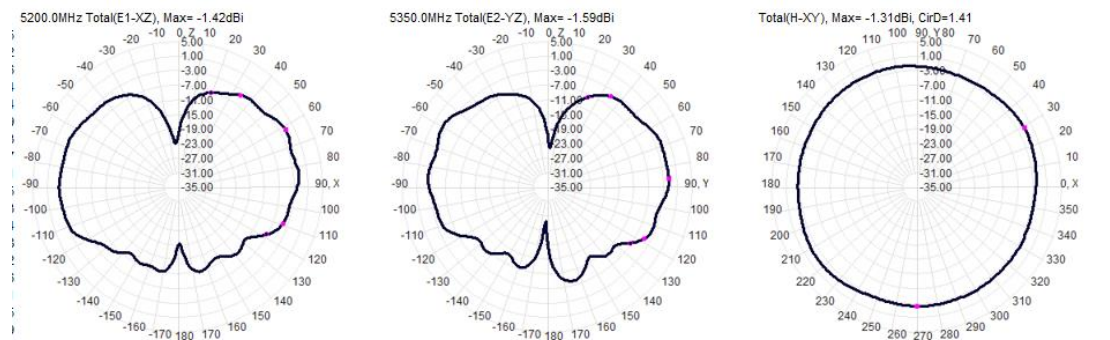
Marker (MHz)	2400	2450	2500	5150	5200	5350	5500	5700	5800	5850
Gain (dBi)	-0.56	0	-0.50	-0.5	-0.25	-0.08	-0.35	-0.16	-0.01	-0.23
Efficiency (%)	54.6	59.1	55.9	48.2	49.5	50.5	49.3	52.1	53.2	48.7

2450 MHz:

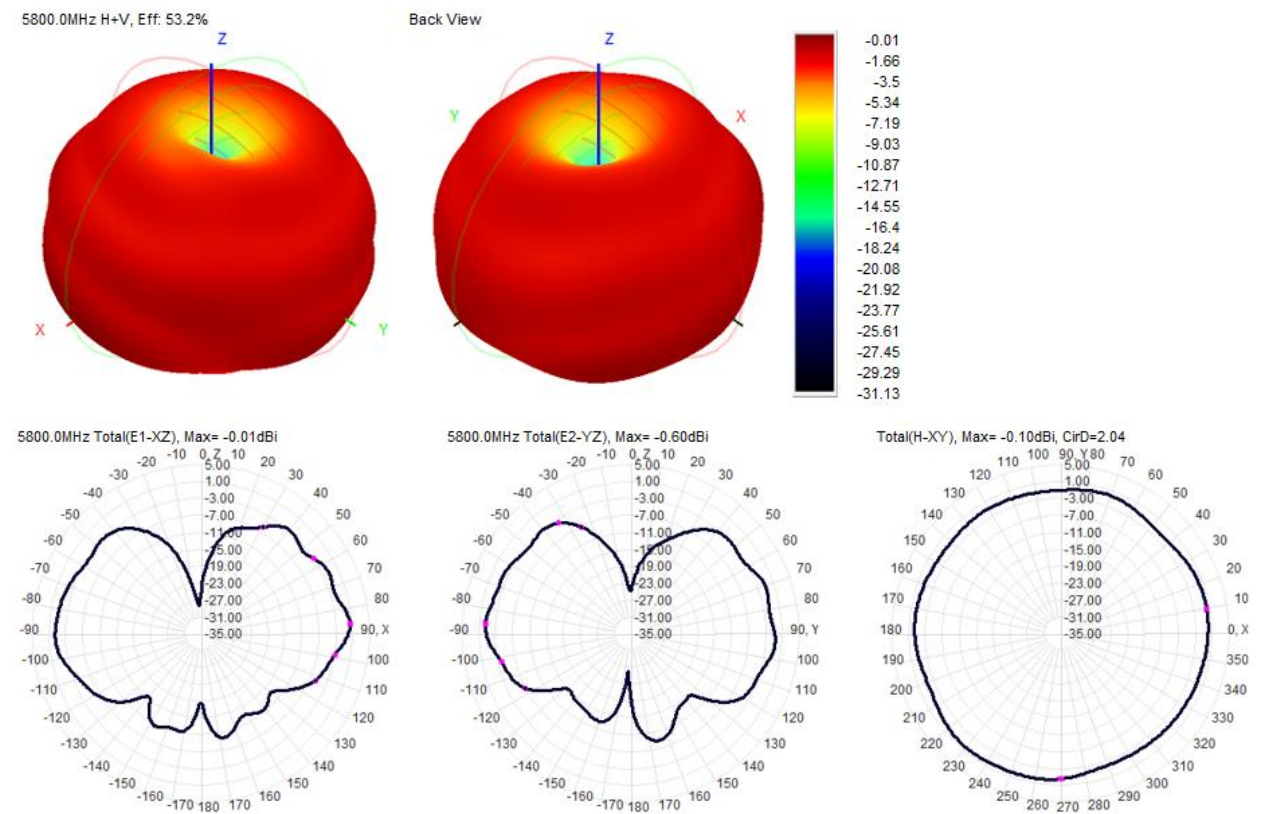


5200 MHz:





5800 MHz:



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2024/10/08
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2024/10/8	1.00	New Project